
Sufficient volume achieved if blood drawn falls above minimum fill indicator.

For blood transfer, **do not** fill above illustrated dashed maximum line.

**Note:** The quantity of blood drawn into evacuated tubes varies with altitude, ambient temperature, barometric pressure, tube age, venous pressure and filling technique.


**BD Global Technical Services:** 1.800.631.0174

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**Minimizing Preanalytical Variables for Coagulation Tests**

- Assemble needle in holder; always fully seat and **hold** a citrate tube on the back end of the needle while filling.

- Allow the tube to fill until the vacuum is exhausted and blood flow ceases.

- Tubes should fill between ±10% of the stated draw volume of the tube (CLSI guideline, Dec. 2003, Doc. H1-A5, Vol. 23, No. 33).

  - **Minimum fill indicator** represents the minimum volume of blood required for appropriate analysis.

  - A discard tube (without additives) **must** be used if **only** a citrate tube is to be drawn using a winged blood collection set. It is important to remove the air from the blood collection set to ensure the proper blood volume is obtained in the tube.

  - **Do not fill tubes from other tubes or combine two partially filled citrate tubes.**

  - If the specimen is drawn with a syringe, do not fill the BD Vacutainer® Citrate Tube beyond the level as illustrated on the reverse side of this guide. Allow the tube to draw the blood from the syringe using a BD Vacutainer® Blood Transfer Device if available. Do not force blood into tube.

  - Immediately after draw, **gently** invert tube 3 to 4 times. **Do not shake.**

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<table>
<thead>
<tr>
<th>Cat#</th>
<th>Size</th>
<th>Draw</th>
<th>Citrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>363083</td>
<td>13 x 75 mm</td>
<td>2.7 mL</td>
<td>3.2% (0.109M)</td>
</tr>
<tr>
<td>363080</td>
<td>13 x 75 mm</td>
<td>1.8 mL</td>
<td>3.2% (0.109M)</td>
</tr>
</tbody>
</table>

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